

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Original) A method for writing data in a tape medium having wraps, comprising:  
providing a layout of the tape including at least one segment within a full available length of a first set of wraps for writing user data and at least one segment within a full length of a second set of wraps for writing a work copy of the user data;  
receiving user data to write to the tape medium;  
detecting whether data writing is occurring in a specified write mode;  
if the data writing is not occurring in the specified write mode, then writing the received user data to one segment in the first set of wraps;  
if the data writing is occurring in the specified write mode, then writing a work copy to available full length wraps not having user data.
2. (Original) The method of claim 1, wherein the specified write mode comprises a synchronous write mode.
3. (Original) The method of claim 2, wherein the received user data comprises a synchronous write, wherein the work copy includes a copy of the received user data, and further comprising:  
returning complete to the received synchronous write after writing the work copy in the second set of wraps.
4. (Original) The method of claim 1, wherein the first set of wraps comprises a series of adjacent wraps and the second set of wraps comprises a series of adjacent wraps with respect to the wraps in the first set.
5. (Original) The method of claim 1, further comprising:  
accumulating the received user data in a buffer when writing work copies; and

writing all the accumulated user data in the buffer to at least one segment in the first set of wraps if the buffer reaches a threshold amount of data or if data is no longer being written in the specified write mode.

6. (Original) The method of claim 5, further comprising:  
if there is no space for further work copies on the wraps to which the work copies are being written, then writing the accumulated data in the buffer and the received data to one segment; and  
performing a backhitch to wait for the next received user data to write.

7. (Original) The method of claim 1, wherein the first set of wraps includes at least two segments, further comprising:  
if one segment in the first set of wraps becomes full of user data, then writing received user data to another available segment in the first set of wraps.

8. (Currently Amended) The method of claim 1, further comprising:  
if there are no available segments in the first set of wraps for user data, then writing user data to one segment in the second [[sets]] set of wraps.

9. (Currently Amended) The method of claim 8, wherein the work copy wraps are written to an available full length wraps in the second [[sets]] set of wraps not having user data.

10. (Currently Amended) The method of claim 8, further comprising:  
if there are no available full length wraps, then writing work copies to wraps within one segment in the second [[sets]] set of wraps that does not include user data.

11. (Original) The method of claim 8, wherein the second set of wraps includes at least two segments, wherein the work copies are written to at least two of a lower wraps in the second set of wraps, and further comprising:  
if user data is written to the at least two lower wraps in one segment in the second set of wraps, then writing the work copies to the at least two lower wraps in an additional segment in

the second set of wraps that does not overlap with any portion of a wrap that includes user data written when writing is not occurring in the specified write mode.

12. (Original) The method of claim 1, wherein data is written in a serpentine manner through wraps in the segments within longitudinal boundaries in the wrap defined by the segment, and wherein after writing user data to all wraps in a segment, writing user data to the wraps in an additional available segment.

13. (Original) A system for writing data in a tape medium having wraps, comprising:  
means for providing a layout of the tape including at least one segment within a full available length of a first set of wraps for writing user data and at least one segment within a full length of a second set of wraps for writing a work copy of the user data;  
means for receiving user data to write to the tape medium;  
means for detecting whether data writing is occurring in a specified write mode;  
means for writing the received user data to one segment in the first set of wraps if the data writing is not occurring in the specified write mode; and  
means for writing a work copy to available full length wraps not having user data if the data writing is occurring in the specified write mode.

14. (Original) The system of claim 13, wherein the specified write mode comprises a synchronous write mode.

15. (Original) The system of claim 14, wherein the received user data comprises a synchronous write, wherein the work copy includes a copy of the received user data, and further comprising:

means for returning complete to the received synchronous write after writing the work copy in the second set of wraps.

16. (Original) The system of claim 13, wherein the first set of wraps comprises a series of adjacent wraps and the second set of wraps comprises a series of adjacent wraps with respect to the wraps in the first set.

17. (Original) The system of claim 13, further comprising:  
means for accumulating the received user data in a buffer when writing work copies; and  
means for writing all the accumulated user data in the buffer to at least one segment in the first set of wraps if the buffer reaches a threshold amount of data or if data is no longer being written in the specified write mode.

18. (Original) The system of claim 17, further comprising:  
means for writing the accumulated data in the buffer and the received data to one segment if there is no space for further work copies on the wraps to which the work copies are being written; and  
means for performing a backhitch to wait for the next received user data to write.

19. (Original) The system of claim 13 wherein the first set of wraps includes at least two segments, further comprising:  
means for writing received user data to another available segment in the first set of wraps if one segment in the first set of wraps becomes full of user data.

20. (Currently Amended) The system of claim 13, further comprising:  
means for writing user data to one segment in the second [[sets]] set of wraps if there are no available segments in the first set of wraps for user data.

21. (Currently Amended) The system of claim 20, wherein the work copy wraps are written to an available full length wraps in the second [[sets]] set of wraps not having user data.

22. (Currently Amended) The system of claim 20, further comprising:  
means for writing work copies to wraps within one segment in the second [[sets]] set of wraps that does not include user data if there are no available full length wraps.

23. (Original) The system of claim 20, wherein the second set of wraps includes at least two segments, wherein the work copies are written to at least two of a lower wraps in the second set of wraps, and further comprising:

means for writing the work copies to the at least two lower wraps in an additional segment in the second set of wraps that does not overlap with any portion of a wrap that includes user data written when writing is not occurring in the specified write mode if user data is written to the at least two lower wraps in one segment in the second set of wraps.

24. (Original) The system of claim 13, wherein data is written in a serpentine manner through wraps in the segments within longitudinal boundaries in the wrap defined by the segment, and wherein after writing user data to all wraps in a segment, writing user data to the wraps in an additional available segment.

25. (Original) An article of manufacture for writing data in a tape medium having wraps, wherein the article of manufacture causes operations to be performed, the operations comprising:

providing a layout of the tape including at least one segment within a full available length of a first set of wraps for writing user data and at least one segment within a full length of a second set of wraps for writing a work copy of the user data;

receiving user data to write to the tape medium;

detecting whether data writing is occurring in a specified write mode;

if the data writing is not occurring in the specified write mode, then writing the received user data to one segment in the first set of wraps;

if the data writing is occurring in the specified write mode, then writing a work copy to available full length wraps not having user data.

26. (Original) The article of manufacture of claim 25, wherein the specified write mode comprises a synchronous write mode.

27. (Original) The article of manufacture of claim 26, wherein the received user data comprises a synchronous write, wherein the work copy includes a copy of the received user data, wherein the operations further comprise:

returning complete to the received synchronous write after writing the work copy in the second set of wraps.

28. (Original) The article of manufacture of claim 25, wherein the first set of wraps comprises a series of adjacent wraps and the second set of wraps comprises a series of adjacent wraps with respect to the wraps in the first set.

29. (Original) The article of manufacture of claim 25, wherein the operations further comprise:

accumulating the received user data in a buffer when writing work copies; and  
writing all the accumulated user data in the buffer to at least one segment in the first set of wraps if the buffer reaches a threshold amount of data or if data is no longer being written in the specified write mode.

30. (Original) The article of manufacture of claim 29, wherein the operations further comprise:

if there is no space for further work copies on the wraps to which the work copies are being written, then writing the accumulated data in the buffer and the received data to one segment; and  
performing a backhitch to wait for the next received user data to write.

31. (Original) The article of manufacture of claim 25, wherein the first set of wraps includes at least two segments, and wherein the operations further comprise:

if one segment in the first set of wraps becomes full of user data, then writing received user data to another available segment in the first set of wraps.

32. (Currently Amended) The article of manufacture of claim 25, wherein the operations further comprise:

if there are no available segments in the first set of wraps for user data, then writing user data to one segment in the second set of wraps.

33. (Currently Amended) The article of manufacture of claim 32, wherein the work copy wraps are written to an available full length wraps in the second set of wraps not having user data.

34. (Currently Amended) The article of manufacture of claim 32, wherein the operations further comprise:

if there are no available full length wraps, then writing work copies to wraps within one segment in the second [[sets]] set of wraps that does not include user data.

35. (Original) The article of manufacture of claim 32, wherein the second set of wraps includes at least two segments, wherein the work copies are written to at least two of a lower wraps in the second set of wraps, and wherein the operations further comprise:

if user data is written to the at least two lower wraps in one segment in the second set of wraps, then writing the work copies to the at least two lower wraps in an additional segment in the second set of wraps that does not overlap with any portion of a wrap that includes user data written when writing is not occurring in the specified write mode.

36. (Original) The article of manufacture of claim 25, wherein data is written in a serpentine manner through wraps in the segments within longitudinal boundaries in the wrap defined by the segment, and wherein after writing user data to all wraps in a segment, writing user data to the wraps in an additional available segment.